

3. Process according to claim 2, wherein, if the verification of step d1) has a negative result, the following steps are carried out:

-d12a) the value of the exposure time set is the maximum (minimum) of the range of prefixed values;

4. Process according to claim 1, wherein step c) of analyzing the image for detecting its level of luminosity comprises the following steps:

-c2) verifying subsequently if the signal generated in correspondence to a current pixel is greater (smaller) than a prefixed higher (lower) global threshold level representative of a condition of overexposure (under-exposure) of the analyzed pixel, and:

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-c22) if such verification has a negative result,
releasing the current pixel and iteratively repeating the
previous steps starting from c2) for the following pixels;

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-c3) verifying if the sum of the contributions accumulated is greater (smaller) than the prefixed higher (lower) global threshold level of the image, in such case

carrying out step e), otherwise repeating the previous steps starting from c2).

5. ^{The method} ~~Process~~ according to claim 1, wherein step c) of analyzing the image acquired by the sensor comprises, in turn, the following steps:

-ci) analyzing, in a period of time "n", the image acquired by the sensor exposed with an exposure time T_{n-1} set in the time "n-1";

-cii) setting, in the time "n", a new exposure time T_n in order to acquire on the sensor an image which is destined to be analyzed in the time "n+1" and proceeding with steps d) and e);

-ciii) iteratively repeating the previous steps starting from c1).

6. ^{The method} ~~Process~~ according to claim 5, wherein the value of the new exposure time T_n set in step cii) is greater ~~(smaller)~~ than the value T_{n-1} previously set.

7. ^{The method} ~~Process~~ according to claim 1, wherein once the optimum exposure time has been found, the following steps are carried out:

-f) defining a second range of values of exposure time comprising Q prefixed values between a new minimum and a new maximum value found among the M values of the first range of values and close to the value of the optimum exposure time previously found;

-g) repeating the previous steps starting from a) until a new optimum exposure time is found;

-h) iteratively repeating the previous steps starting from f), each time defining ranges shorter and shorter which are close to the optimum exposure time previously found.

8. ^{The method} ~~Process~~ according to claim 1, wherein the analysis of the image acquired by the sensor is carried out on a limited portion of the image itself.

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